

FELDHENDLER, H.

FELDHENDLER, H. The introduction of multifashion production in the Poznan Clothing Factories p. 203. Vol. 7, no. 8, Aug. 1956. ODZIEZ. Lodz, Poland.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4, April 1957

FELDHOFER, S.

"The effect of age in horses upon the occurrence of amyloidosis in the production of bivalent serum against Newcastle disease & fowl cholera." Dept. of pathology-anatomy, Vet. Fac., U. of Zagreb.

Vet. Archiv. 23 : 170-172, 1953

RADULESCU, Natalia; FELDIUREANU, T.

Rectoscopic investigations in sucklings suffering from dysentery.  
Romanian M. Rev. 3 no.4:28-29 O-D '59.

1. Clinic of Paediatrics of the Medicopharmaceutical Institute,  
Bucharest.  
(DYSENTERY, in inf. & childh.)  
(ENDOSCOPY)

DZERVITIS, Uldis; <sup>K</sup>FELDHUNE, A., red.; BOKMANIS, R., tekhn. red.

[Strange particles] Divainas dalinas. Riga, Latvijas PSR  
Zinatnu akademijas izdevniesība, 1963. 165 p.  
(Particles (Nuclear physics))

(MIRA 16:5)

SOLAZEMNIECE, Genoveva, kand. biol. nauk; FELDHUNE, A., red.; PILADZE, Z.,  
tekhn. red.

[Composition of blood and its significance in the human  
organism] Asins sastavs jn ta nozime cilveka organizma. Riga,  
Latvijas PSR Zinatnu Akademijas izdevnieciba, 1963. 75 p.

(MIRA 16:5)

(BLOOD--ANALYSIS AND CHEMISTRY)

GROVALDS, Ilgars; FELDRUNE, A., red.

[From pyramids to reinforced concrete] No piramidam līdz  
dzelzsbetonam. Riga, Latvijas PSR Zinatnu akad. izd-ja,  
1964. 99 p. [In Latvian] (MIRA 18:1)

STRADINS, Janis; FELDHUNE, A., red.

[People, experiments, ideas; studies on the works of some famous physical chemists] Cilveki, eksperimenti, idejas; dazu slavenu fizikokimiku darhibas apceres. Otrais izdevums. Riga, Zinatne, 1965. 268 p. [In Latvian] (MIRA 18:12)

L 40341-56 E/F(J) WA/JW/RM  
ACC NR: AT6033600 SOURCE CODE: HU/2502/66/047/001/0083/0097  
AUTHOR: Paal, Zoltan--Pal, Z. (Doctor; Budapest); Foldiak, Gabor--Fel'diak, G. 54  
(Doctor; Budapest) Br/  
ORG: Scientific Research Institute for Petroleum and Natural Gas, Veszprem 1  
TITLE: Some problems in the reaction kinetics and mechanism of hydrocarbon oxidation  
promoted by electric discharge in heterogeneous phase  
SOURCE: Academia scientiarum hungaricae. Acta chemica, v. 47, no. 1, 1966, 83-97  
TOPIC TAGS: chemical reaction kinetics, oxidation, electric discharge, hydrocarbon  
ABSTRACT:  
A silent  
electric discharge promotes heterogeneous surface reactions in the presence of high-energy radiation. The processes taking place in the oxidation of paraffin oil below 100°C (where the reaction has no chain character) and above 100°C (where the initiation by discharge is temperature-independent and is followed by thermal chain propagation) were described. The products of discharge-initiated oxidation were compared with those of thermal processes. The authors thank Senior Scientific Collaborator T. Balint for his contribution. The authors also thank Academician, Professor Miklau Froynd, Director of the Hungarian Scientific Research Institute for Petroleum and Natural Gas for active support in this work. Orig. art. has: 4 figures, 2 formulas and 5 tables. [Based on authors' Eng. abst.] [JPRS: 34,669]  
SUB CODE: 07 / SUBM DATE: 30Jan65 / ORIG REF: 005 / SOV REF: 010  
OTH REF: 004  
Card 1/1 LC

0920 1643

~~FELDMAN, A.~~ FELDMAN, A.

Planning designs for the textile industry. Biuletyn Wzor. p. 13. (PRZEMYSŁ WŁOKIENNOŚĆ, Lodz, Vol. 7, no. 9/10, Sept./Oct. 1953.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, Jun. 1955,  
Uncl.

BALASHOV, V.; FEL'DMAN, A.; PODGOROV, A.

New book on Pneumatic and hydraulic transportation of food industry  
by M.M.Korobov. Ferm.i spirt.prom. 31 no.1:44 '65.

(MIRA 18:5)

Shul'zat, A. A. and Associates.

"The Role of Pathology in the Internal Environment of the Organism in the Pathogenesis and Treatment of Allergic Dermatoses."

Vestnik venerologii i dermatologii (Bulletin of Venereology Dermatology),  
No 1 January-February 1954, (biomper), Moscow.

EACEMPTA MEDICA See 13 Vol 13/2 Dermatology Red 59

392. THE SIGNIFICANCE OF PATHOLOGICAL STATES OF INTERNAL ORGANS IN THE PATHOGENESIS AND THE TREATMENT OF SOME ALLERGIC DERMATOSES (Russian text) - Felaman A.A., Tulberman D.G., Rozental A.S., Goloborodko G.P., Gurinik M.B. and Denisyuk T.S. Odessa - SOVREMENNYE VOPROSY DERMATOLOGII (Kiev) 1957 (154-160) Tables 1

Various diseases of internal organs were discovered in 97 out of 140 patients suffering from dyshidrotic affections of the soles and palms accompanied by eczematous lesions of other skin sites and in 27 out of 37 patients with infected eczema. Liver disease was found in 68 cases, cardiovascular abnormalities in 40, diseases of the gastrointestinal tract in 30, endocrine dysfunction in 20, and diseases of CNS in 13. Eosinophilia was present in 78 and raised erythrocyte sedimentation rate in 101 patients. In experiments, renal lesions were induced in 28 rabbits (subcutaneous injection of uranium nitrate) and hepatic lesions in 25 (intrahepatic injection of 1 ml. of 2% formaldehyde); another group of 30 were subjected to partial bilateral adrenalectomy under general anaesthesia. Blood and urine investigations and histological and histochemical examination of skin showed the following changes: In the presence of renal lesion the skin content of residual nitrogen was markedly increased and that of sugar and glycogen slightly diminished. In the presence of a hepatic lesion the sugar content of the skin was increased (by 50-70%), residual nitrogen was increased and glycogen was notably reduced. In the skin of adrenalectomized animals the residual nitrogen content was increased and that of sugar and glycogen diminished. In all cases inflammatory exudative reaction of the skin was noted. The most marked degenerative changes were observed in the skin of animals with renal lesions. Seventeen rabbits with renal lesions, 19 with hepatic lesions, 20 subjected previously to partial bilateral adrenalectomy and 40 healthy animals were experimentally sensitized to normal horse serum by subcutaneous injection (2 ml.) every five days until the appearance of Arthus' phenomenon. This occurred in 29 controls and all experimental animals (with lesions of internal organs) after 5-7 injections, while in the case of animals with hepatic lesions Arthus' phenomenon appeared after 2-3 injections and was more marked. Hyperergic condition of the skin is thus connected with pathological lesions of internal organs.

Mashkileison Jr - Moscow (S)

FEL, DMAN, A. A.

33027

Wliyanie Uprugosti zakrepleny kray na ustoychivost, sshotoy krugloy plastinki Doklady Akad. Nauk Ukr. Ssr, 1949, No 4, c. 34-38-Na ukr. y, z- Rezyume Na Rus. Yaz.- Bibliogr: 6 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

MEL'DMAN, A.A.

Stability of annular plates having freely supported inside and  
fixed outside edges and subjected to uniform external pressure.  
Sbor. trud. Inst. stroi. mekh. AN URSR no.15:40-56 '51. (MIRA 11:4)  
(Elastic plates and shells)

AYZERMAN, M.A.; KALISH, G.G., prof., doktor tekhn.nauk, laureat Stalinskoy premii, retsenzent; FEL'DBAUM, A.A., kand.tekhn.nauk, retsenzent; BLOKH, Z.Sh., prof., doktor tekhn.nauk, red.; SOKOLOV, T.F., tekhn.red.

[Introduction in the dynamics of the automatic control of engines]  
Vvedenie v dinamiku avtomaticheskogo regulirovaniia dvigatelei.  
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1950.  
150 p. (MIRA 14:4)

(Automatic control) (Engines)

86788

16.9500(1031,1132,1344)

S/142/60/000/003/001/017  
E192/E482

AUTHOR: Fel'dbaum, A.A.

TITLE: New Principles of Automatic Control. Part 1

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,  
1960, No.3, pp.299-308

TEXT: This article is the abridged version of the lecture read at the Faculty of Automatics and Computer Techniques of the Moscow "Order of Lenin" Power Engineering Institute in October 1959. The theory of communications and control studies the transmission of signals through various systems and the processes which the signals undergo in these systems. In general, a system has an input U and an output X (see Fig.1). In the case of, for instance, a technological process, U represents the parameters of the raw material and the form of the process, while X represents the production parameters. Various similar examples of control processes can be given. The simplest type of an automatic control system is the so-called open-loop system (such as shown in Fig.2). Here O is the control object, Y is a control device which produces a control signal U, X is the quantity obtained

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E192/E482

New Principles of Automatic Control. Part 1

at the output of the object. In the open-loop system,  $U$  is independent of the run of the process and it is predetermined by a certain programme. The system of Fig.2 is subject to a noise signal  $F$  which also affects the object. A more complex type of automatic control is shown in Fig.3. Here the quantity  $X$  is maintained constant and equal to a given value  $X_0$ . The control portion of the system compares  $X$  with  $X_0$  and operates as follows: (a) if  $X < X_0$ ,  $U$  is so changed that  $X$  is increased; (b) if  $X > X_0$ , the parameter  $U$  is changed in such a way as to reduce  $X$ . If a perturbation (noise)  $F$  changes  $X$ , the effect of  $U$  is such as to restore the equality  $X = X_0$ . This system can be referred to as the automatic stabilizing system. The so-called automatic search systems (or self-adjusting systems) represent a further degree of complexity in automatic control. A system of this type is illustrated in Fig.4, where the controlling device  $Y$  performs tests  $U_n$ , analyses their results and evaluates the necessary operating signal  $U_p$  such that the output quantity  $X$  of the system fulfills the required conditions. The motion or

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S/142/60/000/003/001/017  
E192/E482

New Principles of Automatic Control. Part 1

operation of a system can be represented in the phase space (as shown in Fig.6). It is assumed that  $x_1 \dots x_n$  are the quantities which determine the state of the system (coordinates of the system). In a rectangular system with coordinates  $x_i$ , a point  $M_0$  corresponds to a given state of the system. The change of state of the system in the phase space is represented by the number of the mapping point  $S$  along a certain trajectory  $M_0M_1$ . On the basis of Fig.6 (and also Fig.7) it is possible to explain the operation of the so-called optimizing systems. An example of such a system is shown in Fig.8. Here  $P$  represents a unit having a switching characteristic  $\sigma = \text{sign } \varphi$ . If  $\varphi > 0$ , a quantity  $\sigma = +1$  is obtained at the output of  $P$ ; this is applied to the input of the object  $O$ ; if  $\varphi < 0$  a quantity  $\sigma = -1$  is applied to the input of the object. The system is optimal as regards its operating speed. The problems of this type can be encountered in various systems, in particular in chemical reactors. The problem of a reactor is considered in some detail. A certain class of objects which are described by equations of the type

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New Principles of Automatic Control, Part 1

$$\left. \begin{aligned} \frac{dx_i}{dt} &= f_i(x_1 \dots x_n, u_1 \dots u_r) \\ i &= 1, \dots, n \end{aligned} \right\} \quad (2)$$

can be analysed by the so-called maximum method which was devised by L.C.Pontryagin, V.G.Boltyanskiy and R.V.Gamkrelidze (Ref.6, 7 and 8). In Eq.(2)  $x_1 \dots x_n$  are the coordinates of the objects and  $u_1 \dots u_r$  are the control signals. Eq.(2) can be simplified by introducing vectors  $\bar{x}$ ,  $\bar{x}$  and  $\bar{u}$ ; these are defined by Eq.(3). The object can be represented as shown in Fig.10, where  $\bar{u}$  is the input vector of the object and  $\bar{x}$  is its output vector. Eq.(2) can therefore be written as Eq.(4) where  $\bar{u}$  represents the control vector. The problem consists of determining such a vector function  $\bar{u} = u(t)$  for which the translation of the system from a state  $M_0$  into a state  $M_K$  is completed in the minimum time. The problem can be solved by introducing an auxiliary system of equations with variables  $\phi_i$ ; this system is represented by Eq.(6); an auxiliary function  $H$  defined by Eq.(7) is also introduced.

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New Principles of Automatic Control. Part 1

R.Bellman (Ref.9 to 13) developed the method of dynamic programming. The essence of this method is explained by means of an example where the object is described by Eq.(8). This is assumed to be an equation of the first degree and that the initial condition is  $x(t=0) = x_0$ . The problem consists of finding a control function  $u(t)$  such that the integral given by Eq.(9) is a minimum. The above variation methods give the possibility of solving complex problems, determining optimum processes and synthesizing optimizing systems. Depending on the quantity which is minimized, the optimizing systems can be divided into 3 groups: (a) uniformly optimizing systems; (b) statistically optimizing systems; (c) mini-maximum optimizing systems. The systems with optimum control speed belong to the first group. The systems of the second group are optimizing in the statistical sense, that is they give an average optimization. The systems of the third group are characterized by the fact that they produce the best result in the worst case. There are 12 figures and 13 references:

8 Soviet and 5 non-Soviet.

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E192/E482

New Principles of Automatic Control. Part 1

ASSOCIATION: Kafedra avtomatiki i telemekhaniki  
Moskovskogo ordena Lenina energeticheskogo instituta  
(Department of Automatics and Telemechanics of  
Moscow "Order-of-Lenin" Power Engineering Institute)

SUBMITTED: February 15, 1960

Card 6/6

BARKOV, N.N., kand. eken. nauk; ZELIKOVICH, I.I., kand. ekonom. nauk;  
Prinimali uchastvuyet YANBOLOVEKII, N.A., inzh., INOZEMTSEVA,  
K.N., inzh.; KEL'IMAN, A.A., inzh.; KOTALEVA, Z.P., ekonomist

[Economic efficiency of the construction of new railroad lines;  
problems of methodology.] Ekonomicheskaya effektivnost' stroy-  
atel'stva novykh zheleznych dorozhnykh linii: voprosy metodiki.  
Moskva, Transport, 1965. Ili p. (Moscow. Vsesoiuznyi nauchno-  
issledovatel'skii institut zheleznych dorozhnykh transporta.  
Trudy, no.293)

(MIRA 28:7)

FEL'DMAN, A.A.

Using geophysical methods in searching for gold-ore deposits of  
the Kuranakh type. Geofiz. razved. no.5:75-85 '61. (MIRA 15:3)  
(Gold ores) (Prospecting--Geophysical methods)

YEL'DMAN, A.B.

Sechenov-Pashutin's phenomenon in inhibition of the cerebral cortex  
in man. Fiziol.shur. [Ukr.] 2 no.1:12-17 Ja-F '56. (MLRA 10:1)

1. Stalins'kiy medichniy institut imeni O.M.Gor'kogo, kafedra  
normal'noy fiziologii.  
(INHIBITION) (CONDITIONED RESPONSE)

PUTILIN, N.I., prof., ~~sttv.~~ red.; ALEKSENTSEVA, E.S., prof., red.;  
MAKARCHENKO, A.F., akademik, red.; PRIKHOD'KOVA, Ye.K., prof.,  
red.; SKLYAROV, Ya.P., prof., red.; TORSKAYA, I.V., kand. biol.  
nauk, red.; FEL'DMAN, A.B., prof., red.; FILIPPOVA, A.G., kand.  
biol. nauk, red.; FUGOL', O.M., prof., red.; YANKOVSKAYA, Z.B.,  
red. izd-va; MATVEYCHUK, A.A., tekhn. red.

[Selected works] Izbrannye trudy. Kiev, Izd-vo Akad. nauk USSR,  
1962. 454 p. (MIRA 16:3)

1. Akademiya nauk Ukr. SSSR (for Makarchenko).  
(PHYSIOLOGY)

FEL'DMAN, A.B. [Fel'dman, O.B.]

"Absorption in the digestive apparatus" by R.O. Faitel'berg.  
Reviewed by O.B. Fel'dman. Fiziol. zhur. [Ukr.] 8 no.3:421-422  
My-Je '62.

(MIRA 15:6)

(ABSORPTION (PHYSIOLOGY))  
(FAITEL'BERG, R.O.)

FEL'DMAN, A.B.

BARANOV, A.F., redaktor; BIZYUKIN, D.D., redaktor; VAKHIN, M.I., otvetstvennyy redaktor toma, professor, doktor tekhnicheskikh nauk; VEDENISOV, B.N., redaktor; IVLIYEV, I.V., redaktor; MOSHCHUK, I.D., redaktor; RUDOV, Ye.P., glavnyy redaktor; SOKOLIESKIY, Ya.I., redaktor; SOLOGUBOV, V.N., redaktor; SHIL'EVSKIY, V.A., redaktor; ALFEROV, A.A., inzhener; ANASHKIN, B.T., inzhener; AFANAS'YEV, Ye.V., laureat Stalinskoy premii, inzhener; BELENKO, K.M., dotsent; BORISOV, D.P., dotsent, kandidat tekhnicheskikh nauk; ZHIL'TSOV, P.N., inzhener; ZBAR, N.R., inzhener; IL'YENKOV, V.I., dotsent, kandidat tekhnicheskikh nauk; KAZAKOV, A.A., kandidat tekhnicheskikh nauk; KRAYZMER, L.P., kandidat tekhnicheskikh nauk; KOTLYARENKO, N.F., dotsent, kandidat tekhnicheskikh nauk; MAYSHEV, P.V., professor, kandidat tekhnicheskikh nauk; MARKOV, M.V., inzhener; NELEPETS, V.S., dotsent, kandidat tekhnicheskikh nauk; NOVIKOV, V.A., dotsent; ORLOV, N.A., inzhener; PETROV, I.I., kandidat tekhnicheskikh nauk; PIVKO, G.M., inzhener; PODGORIN, A.M., inzhener; RAMLAU, P.N., dotsent, kandidat tekhnicheskikh nauk; ROGINSKIY, V.H., kandidat tekhnicheskikh nauk; RYAZANTSEV, B.S., laureat Stalinskoy premii, dotsent, kandidat tekhnicheskikh nauk; SNAESKIY, A.A., inzhener; FEL'DMAN, A.B., inzhener; SHASTIN, V.A., laureat Stalinskoy premii. Inzhener; SHOK, B.I., inzhener; GONCHUKOV, V.I., inzhener, retsensent; NOVIKOV, V.A., dotsent, retsensent; AFANAS'YEV, Ye.V., laureat Stalinskoy premii, retsensent;

[Technical handbook for railroad men] Tekhnicheskii spravochnik zhelezodorozhnika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiya, tsentralizatsiya, blokirovka, sviaz'. Red. kollegiia A.F. Baranov [i dr.] Glav.red. E.F. Rudoi. Moskva. Gos. transp. zhel-dor. izd-vo, 1952. 975 p.

(Continued on next card)

BRYLEYEV, A.M., laureat Stalinskoy premii, inzhener; GAMBURG, Ye.Yu., inzhener, retsenzent; GOLOVKIN, M.K., inzhener, retsenzent; KAZAKOV, A.A., kandidat tekhnicheskikh nauk, retsenzent; KUT'IN, I.M., dotsent, kandidat tekhnicheskikh nauk, retsenzent; LEONOV, A.A., inzhener, retsenzent; SEMENOV, N.M., laureat Stalinskoy premii, inzhener, retsenzent; CHER-NISHEV, V.B., inzhener, retsenzent; VALUYEV, G.A., inzhener, retsenzent; MEFTAS, N.A., laureat Stalinskoy premii, inzhener, retsenzent; NOVI-KOV, V.A., dotsent, retsenzent; PIVOVAROV, A.L., inzhener, retsenzent; POGODIN, A.M., inzhener, retsenzent; KHODOROV, L.R., inzhener, retsenzent; PIVOVAROV, A.L., inzhener, retsenzent; POGODIN, A.M., inzhener, retsenzent; KHODOROV, L.R., inzhener, retsenzent; SHUPLOV, V.I., kandidat tekhnicheskikh nauk, retsenzent; KLYKOV, A.P., inzhener, retsenzent; YUDZON, D.M., tekhnicheskiy redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Technical handbook for railroad men] Tekhnicheskii spravochnik zheleznychornika. Vol. 8. [Signaling, central control, block system, and communication] Signalizatsiya, tsentralizatsiya, blokirovka, sviaz'. Red. kollegiia A.F. Baranov [i dr.] Glav.red. E.F. Rudoi. Moskva, Gos. transp. zheleznychorn. izd-vo, 1952. 975 p. (Card 2) (MLRA 8:2)  
(Railroads--Signalizing) (Railroads--Communication systems)

FEL'DMAN, A. B.

Class 21a<sup>2</sup>, 36<sub>22</sub>, No. 102801. Fel'dman, A. B. and Gertsik, Z. A.  
Method of Multiplexed HF Telephone Currents.

For raising the stability of channel operation when telephoning on one frequency band in both directions of transmission, it is suggested that the terminal offices use a mixture of carrier frequencies from modulator and demodulator oscillators, ensuring the displacement of the transmitting and receiving band.

Authors' Certificates, Elektrosvyaz' No. 9, 1956.

1. APPROVAL DATE: 07-31-2000

POGODIN, A.M., inzh.; FEL'DMAN, A.B., inzh.red.; VENINA, G.P., tekhn.red.

[Electrical engineer's manual of longdistance telephone communications] Rukovodstvo elektromekhaniku dal'nei telefonnoi sviazi, Moskva, Gos.transp.shel-dor. izd-vo, 1957. 427 p. (MIRA 11:2) (Telephone--Handbooks, manuals, etc.)

VOLKOV, Vladimir Mikhaylovich, DYUFUR, Sergey Lvovich, KOROGODSKAYA, Raisa Lvovna, NOVIKOV, Vasiliy Aleksandrovich, red.; YEL'DMAN, A.B., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Telephony] Telefoniia. Pod obshchel red. V.A.Novikova. Moskva, Gos. transp. shel-dor. izd-vo, 1958. 404 p. (MIRA 11:10)  
(Telephone)

FEL'DMAN, A.B.

FEL'DMAN, A.B., inzh.

Protecting communication lines from interference caused by direct  
current electric railways. Avtom., telem. i sviaz' 2 no.1:10-13  
(MIRA 11:1)  
Ja '58.  
(Electric lines)

KORCHAGIN, N.A., kand. tekhn. nauk; YEL'DMAN, A.B., inzh.

New power supply apparatus for communication centers. Avtom.,  
telem. i sviaz' 2 no.3:8-11 Mr '58. (MIRA 13:1)  
(Railroads--Communication systems)

FELDMAN, A.B.

**TABLE 1** *ROCK EXPLOSIVES* 80/2776

**Europe v Stakeholdership** (ed.), Cambridge, Cambridge University Press; **New Developments in Welfare Activism, Remote Control and Communication: Collection of Articles** (ed.), Transworld, 1999. 200 p., 3,000 copies.

(Title page): B.S. Dantchenko, Candidate of Technical Sciences, and A.M. Pechka, Masters Ed. [Title back]: G.G. Novoselov, Engineer, Sov. Sci. Ed. Works.

**Books:** This collection of articles is intended for engineers and scientists specializing in railroad mechanics and traffic control and management.

The article in this book contains the following problems: The square  
problem and problems connected with the electric power supply of magnetic blocks.

and resulting parts of railway stations; and the station of *Wageningen*, with a relay-station of great importance.

and the following year he was appointed to the chair of mathematics at the University of Bonn.

Some authors also give some additional particulars on methods and results obtained and published in the United States. There are no references.

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the first time I have seen it, and I am sure it is a new species.

is of the opinion that the present system of *Regulations* should be entirely revised, wholly new in the *first*, applies only to *small* postmen, stationers, pedlars, &c., and should include a more liberal system for *large* postmen.

Operation of this system for over five years gave satisfactory results. A description of the system is given.

Mr. J. L. and Mrs. M. G. Smith, Esqrs., have been appointed by the Board of Trade to act as Commissioners for the trial of the suit between the British Government and the Sultan of Johore.

of the Ministry of Transport, in 2007 developed a new system of standardised and harmonised terminology (ISO 20000) called, *Service Level Management*. This describes

<sup>102</sup> See also *ibid.*, 1970, pp. 10-11; *ibid.*, 1971, p. 10.

As the Bismarck Solar Service for Marketing Fresh  
Fruit in 1935 the Bismarck Lumbermen started the  
Bismarck Lumbermen's Fresh Fruit Service.

Electrically operated regulation of railroad cars by means of an electro-mechanical model of an electronic computer of the KED-3 type and of a number of the KED-1 type were developed and tested under operational conditions.

A. J. B. Becker. The first one was a good one, but the second was not so good.

250  
in 1932 are studies of the extent of the distribution of various species of the *Sciaridae* in Ontario and in the streets of the Central Park Reserve.

bioassay. The results of these experiments are presented in Table I. The results show that the *in vitro* activity of the extracts from *L. latifolium* and *L. longistylis* is similar to that of the *in vivo* activity. The extracts from *L. latifolium* and *L. longistylis* were more active than those from *L. chinense* and *L. japonicum*. The extracts from *L. latifolium* and *L. longistylis* were more active than those from *L. chinense* and *L. japonicum*. The extracts from *L. latifolium* and *L. longistylis* were more active than those from *L. chinense* and *L. japonicum*.

*Journal of Hospital Pharmacy*, Vol. 22, No. 3, June 1989  
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**127**  
is a descriptive article on Red Woods in the USA.

— a settlement in the U.S.

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**APPROVED FOR RELEASE: Monday, July 31, 2000**

CIA-RDP86-00513R000412820C

FEL'DMAN, A.B., starshiy nauchnyy sotrudnik

Device for measuring interfering potentials. Avtom. telem. i svias'  
3 no.8:9-11 Ag '59.  
(MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezodorozhnnogo  
transporta Ministerstva putey soobshcheniya.  
(Electric railroads--Current supply)

FEL'DMAN, A.B., starshiy nauchnyy sotrudnik

Fundamental principles of high frequency telephone communication on long-distance cable communication lines of the Ministry of Railroad Transportation. Avtom., telem.i sviaz 3 no.9:21-24 8 '59. (MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnoy transporta. (Telephone) (Railroads--Communication systems)

TYURMOREZOV, Viktor Yevgrafovich, inzh.; KIRILOV, Mikhail Mikhaylovich,  
kand. tekhn. nauk; KOZLOV, Lev Nikolayevich, inzh.; KRUMIN, Ye.A.,  
kand. tekhn. nauk, retsenzent; POZDNYAKOV, L.G., inzh., retsenzent;  
FEL'DMAN, A.B., inzh., retsenzent; KAZAKOV, A.A., kand. tekhn.  
nauk, red.; MEDVEDEVA, M.A., tekhn. red.

[Electric power supply to railroad communications, apparatus and  
automatic control, and remote control systems] Elektropitanie  
ustroistv sviazi, avtomatiki i telemekhaniki na zheleznyodorozhnom  
transporte. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va  
putei soobshcheniya, 1961. 215 p. (MIRA 14:11)

(Electric power supply to apparatus)  
(Railroads--Electric equipment)

FEL'DMAN, Aleksey Bernardovich; CHASTOYEDOV, Leonid Aleksandrovich;  
KONTSEVOY, G.M., inzh., retsenzent; NOVIKAS, M.N., inzh.,  
red.; KHITROVA, N.A., tekhn. red.

[Electric power supply for railroad telecommunication ap-  
paratus] Elektropitanie ustroistv sviazi na zheleznydorozhnom  
transpore. Moskva, Transzheldorizdat, 1962. 222 p.

(Electric power supply to apparatus)  
(Railroads--Electric equipment)

(MIRA 15:10)

KIZIMOV, N.A.; OBONITSKAYA, O.V.; SERDYUK, Ye.Ye.; TRANKVILITATI, N.N.;  
FEL'DMAN, A.B.

Relationship between the magnitude of a safe electric current and  
the length of its action on the organism. Trudy MakNII 14. Vop.  
gor. elektromekh. no.5168-87 '62.

(Electricity in mining—Safety measures) (MIRA 16;6)  
(Electricity, Injuries from)

FEL'DMAN, A.B., inzh.

Special features of the low-distance power supply of the  
multiplexing apparatus of cable communication lines in a.c.  
railroad districts. Trudy TSNII MPS no. 265:83-94 '63.  
(MIRA 17:5)

FEL'DMAN, A.B., inzh.

Interference generated by railroads with d.c. traction in overhead communication lines. Avtom., telem. i sviaz' 9 no.6:11-15 Je '65.  
(MIRA 18:8)

FEL'DMAN, A.G.

new design of grooved cylinders. Tekst.prom. 19 no.10:42-44  
O '59.  
(MIRA 13:1)

1. Zam.nachal'nika laboratorii Vsesoyuznogo nauchno-issledovatel'skogo instituta po normalizatsii v mashinostroyenii.  
(Cotton spinning machinery)

FEL'DMAN, A.G.

Calculation of physiological tremor spectrum based on data  
of the motor unit work. Biofizika. 9 no.6:726-730 '64.

I. Institut biologicheskoy fiziki AN SSSR, Moskva. (MIRA 18:7)

ASATRYAN, D.G.; FEL'DMAN, A.G.

Functional adjustment of the nervous system in controlling movements  
or preserving stationary posture. Biofizika 10 no.5:837-846 '65.

1. Institut biologicheskoy fiziki AN SSSR.

(MIRA 18:10)

FEL'DMAN, Aleksandr Grigor'yevich; CHISTYAKOV, V.O., red.

[Radon waters of Belya Tserkov'] Bilotserkiv's'ki radonovi vody. Kyiv, Zdorov'ia, 1965. 42 p.  
(MIRA 19:1)

TSAREV, A.I., inzh.; FEL'DMAN, A.I., inzh.; GROBOV, P.A., inzh.

Measuring thermal stresses on the surface layer of reinforced concrete structures. Gidr.stroi. 34 no.11:27-30 N '63.(MIRA 17:3)

FEL'DMAN, A. I.

Malt kiln with mobile beds; abstract. Form. i spirit. prom. 30 No. 51  
41 '64. (MIRA 17:10)

FEI'DMAN, A.I.

Plate pasteurizer and heat exchanger. Ferm. i spirt. prom. 30 no. 6;  
23-24 '64.  
(MIRA 17:11)

L 11331-67 EWT(d)/EWT(l)/EWT(m)/EWP(k)/EWP(h)/EWP(l)/EWP(v) LM/DJ  
ACC NR: AP6035921 SOURCE CODE: UR/0413/66/000/020/0173/0174  
*25*  
*21*

INVENTOR: Gurevich, E. Z.; Tyvorskaya, R. I.; Fel'dman, A. I.

ORG: none

TITLE: Self-sealing control valve. Class 47, No. 187464

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966,  
173-174

TOPIC TAGS: valve, rotating seal, *flow control*

ABSTRACT: The proposed control valve contains a housing and a disk shut-off element and a seat, which are positioned perpendicular to the liquid flow. To simplify the

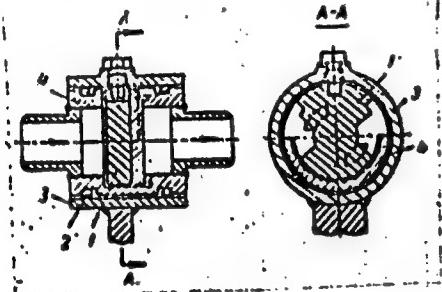


Fig. 1. Self-sealing valve

1 - Shut off element; 2 - seal; 3 - rotating sleeve; 4 - valve housing.

UDC: 621.646.47: :621.646.621

Card

Card 1/2

CIA-RDP86-00513R000

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CIA-RDP86-00513R000412820

FEL'DMAN, Aleksandr Isidorovich

Diseases of the Ear.

DECEASED  
C/1964

1964

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CIA-RDP86-00513R000412820C

SHKOP, Ya.F.; FEL'DMAN, A.I.

[Equipment for malt production] Oborudovanie solodovenogo proizvodstva. Moskva, TSentr. in-t nauchno-tekhn. informatsii pishchevoi promyshl., 1963. 27 p.

(MIRA 17:9)

FEL'DMAN, A.I.

Apparatus for washing piping and hose. Spirt.prom. 29 no.1:39.  
(Germany, West--Breweries—Equipment and supplies) (MIA 16:2)

FEL'DMAN, A.I.

Unit for continuous beer cooking and brewing. Spirit. prom. 28  
no. 6:43-44 '62.  
(MTRA 16:10)

FEL'DMAN, A. I.

Malt elevator (from "Brauwelt," No. 6/7, 1962). Spirt. prom.  
28 no. 8:37 '62. (MIRA 16:1)

(London—Brewing industry—Equipment and supplies)

KOPERIN, Vladislav Vladimirovich; YUSHKOV, Nikolay Ivanovich; NAUMOV, Vasilij Grigor'yevich; TUROVSKIY, Petr Borisovich; Prinimal uchebniye FEL'DMAN, A.I., inzh. KORELIN, D.S., red.; MIKHAYLOVA, L.G., red. Izd-va; PARAKHINA, N.L., tekhn.red.

[Manual on the assembly of technological equipment in the enterprises of the pulp and paper industry] Spravochnik po montazhu tekhnologicheskogo oborudovaniia predpriatii tselliuloznobumashnoi promyshlennosti. Moskva, Goslesbumizdat, 1960. 259 p. (MIRA 14:4)

1. Treat Soyuzprommontazh (for Fel'dman).  
(Paper industry--Equipment and supplies)

YUSHKOV, Nikolay Ivanovich, kand.tekhn.nauk; NASHOT, Vassily Grigor'yevich;  
PEL'DANOV, Akim Konstantinovich; GOLOVKO, Ye.M., red.

[Repair of the technological equipment of woodpulp and paper enterprises] Remont tekhnologicheskogo oborudovaniia tsel-liuolezno-bumazhnykh predpriiatii. Moskva, Lesnaya promyshlennost', 1965. 120 p.  
(MIRA 18:9)

MARKH, A.T.; YEL'DIMAN, A.L.

Removing the bitter taste from citrus products. Patent U.S.S.R. 77,160,  
Dec. 31, 1949.  
(CA 47 no.19:10150 '53)

CA

*Biotechnical transformations of flavonoid glycosides of citrus fruits. A. T. Marsh and A. L. Pol'stina (Cambridge, U.S.S.R.). Zashchita Rastenij 15, 380-9 (1980).—*

The bitter taste of tangerine juice caused by the glycoside naringin can be eliminated by enzymatic fermentation, as follows: To a l. of juice, add 6 ml. of a peroxidase ext. (horse-radish, radish, garlic, cabbage, apple), 25 ml. of 0.08% H<sub>2</sub>O<sub>2</sub>, 0.25 g. ascorbic acid, and 0.25 g. citric acid. Heat the tangerine juice to 75°, in order to dissolve all the naringin, and cool to 45° before adding the enzyme mixt. The bitter taste of tangerine juice can be almost completely removed by the fermentation method.

H. Prestley

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**APPROVED FOR RELEASE: Monday, July 31, 2000**    **CIA-RDP86-00513R000412820C**

MARKH, A.T.; FEL'DMAN, A.L.; KROTOV, Ye.G.; KAGAN, I.S.; MARKH, Z.A.

Causes of the darkening of pickled pasteurized cabbage and a  
method of preserving its natural color. Kons.i ov.prom. 12  
no.8:14-16 Ag '57. (MLRA 10:10)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodill'noy  
promyshlennosti (for Markh, Fel'dman, Krotov). 2. Ukrainskiy  
nauchno-issledovatel'skiy institut konservnoy promyshlennosti  
(for Kagan; Markh, Z.A.)  
(Cabbage--Preservation)

~~SECRET~~  
MARKH, A.T.; YEL'DMAN, A.L.

Dehydrogenases in tomatoes [with summary in English]. Biokhimia  
22 no.6:929-932 N-D '57. (MIRA 11:2)

1. Odesakiy tekhnologicheskiy institut pishchevoy i kholodil'noy  
promyshlennosti.

(DEHYDROGENASES, determination,  
in tomatoes (Rus))  
(TOMATOES,  
dehydrogenase determ. (Rus))

Country : USSR  
Category : Cultivated Plants. Potatoes. Vegetables. Melons. M

Abs Jour : RZhBiol., No 6, 1959, No 24897

Author : Fel'dman, A. I.  
Inst : Odessa Genetico-Selection Institute.

Title : A Recent Tomato Variety for the Can Industry.

Orig Pub : Konserven. i. ovoshchesush. prom-st', 1958,  
No. 8, 34-35

Abstract : Concerning the variety Odessa 19, developed by  
the Odessa Genetico-Selection Institute by means  
of crossing the varieties Chudorynok and Brekodex.  
The variety is characterized by a large yield, a  
high content of solid substances, sugars and as-  
corbic acid.

Card : 1/1

FEL'DMAN, A.L., kand.tekhn. nauk, dotsent

Keeping quality of tomatoes in storage. Trudy OTIPKhP no.2:53-63  
'59. (MIRA 13:9)

(Tomatoes--Storage)

MARKH, A.T., doktor tekhn.nauk, prof.; FEL'DMAN, A.L., kand.tekhn.nauk, dotsent;  
KAGAN, I.S.; kand.tekhn.nauk; KROTOV, Ye.G., kand.tekhn.nauk; MARKH,  
Z.A., starshiy nauchnyy sotrudnik; TERTILOVA, A.G., assistent

Factors responsible for the darkening of pickled pasteurized cabbage.  
Trudy OTIPKhP 9 no.2:3-19 '59. (MIRA 13:9)

1. Kafedra biokhimii i mikrobiologii Odesskogo tekhnologicheskogo  
instituta pishchevoy i kholodil'noy promyshlennosti i Ukrainskiy  
nauchno-issledovatel'skiy institut konservoy promyshlennosti.  
(Cabbage)

MARKH, A.T.; FEL'DMAN, A.L.; KAGAN, I.S.; LYASHCH, D.Yu.

Improving the quality of preserved cauliflower. Kons. i ov. prom.  
14 no.9:15-17 8 '59. (MIRA 12:12)

1.Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy  
promyshlennosti (for Markh, Fel'dman). 2.Ukrainskiy nauchno-  
issledovatel'skiy institut konservnoy promyshlennosti (for Kagan,  
Lyashch).

(Cauliflower--Preservation)

FEL'DMAN, A.L.

Effect of growth conditions on the biochemical properties of cauliflower. Izv.vys.ucheb.zav.; pishch.tekh. no.1:28-32 '60.  
(MIRA 13:6)

1. Kafedra biokhimii i mikrobiologii Odesskogo tekhnologicheskogo  
instituta pishchevoy i kholedil'noy promyshlennosti.  
(Cauliflower)

MARKH, A.T.; FEL'DMAN, A.L.; GLOBINA, N.N.

Vitaminizing preserved juices and stewed fruits. Kons.i ov.prom.  
16 no.1:7-9 Ja '61. (MIRA 13:12)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy  
promyshlennosti.  
(Fruit—Preservation) (Vitamins)

MARKH, O.T.; FEL'DMAN, A.L.; ZOZULEVICH, B.V.

Vitaminization of some food products. Khar.prom. no.1:72-75  
Ja-Mr '62. (MIRA 15:8)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy  
promyshlennosti.  
(Food additives) (Vitamins)

FEL'DMAN, A.L.; LYI-I [Liu-i]

Effect of cultivation practices on the biochemical properties  
of tomatoes and white head cabbage. Izv.vys.ucheb.zav.;  
pishch.tekh. no.4:20-24 '62. (MIRA 15;11)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy  
promyshlennosti, kafadra biokhimii i mikrobiologii.  
(Tomatoes--Fertilizers and manures)  
(Cabbage--Fertilizers and manures)

PAVLOVSKIY, Petr Yevgen'yevich, dots.; PAL'MIN, Viktor Vasil'yevich,  
dots.; DEMIN, N.N., doktor biol. nauk, prof., retsentent;  
FEL'DMAN, A.L., kand. tekhn. nauk, dots., retsentent;  
KUZIN, A.M., red.; KOSSOVA, O.N., red.; SATAROVA, A.M.,  
tekhn. red.

[Biochemistry of meat and meat products] Biokhimia miasa  
i miasoproduktov. Moskva, Pishchepromizdat, 1963. 324 p.  
(MIRA 16:4)

I. Chlen-korrespondent Akademii nauk SSSR (for Kuzin).  
(MEAT) (BIOCHEMISTRY)

FEL'DMAN, A.L.; GUSAR, Z.D.; KATSEVICH, A.I.

Preparation of canned plums from the Early Siniukha variety.  
Kons. i ov.prom. 18 no.9:8-9 S '63. (MIRA 16:9)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy  
promyshlennosti.

(Fruit, Canned)

KOZLOV, A.I., inzh.; YAL'DMAN, A.M., inzh.

Unit with hydraulic clamps for press-fitting of bushings and  
riveting of excavator buckets. Stroi, i dor, mashinostr. 4  
no.11:31-32 N '59  
(MLIA 13:3)  
(Excavating machinery) (Rivets and riveting)

FEL'DMAN, A.M.; DANILOV, A.A.

Automatic step-by-step conveyor. Mashinostroitel' no.7:5 Jl '65.  
(MIRA 18:7)

SHUSTEF, Frida Maksovna; FEL'DMAN, Aleksandr Markovich; GUREVICH,  
Vladimir Yudelevich; MALYAVKO, L.T., red.; ZHUK, V.N.,  
tekhn. red.

[ "Olympic" mathematical problems] Sbornik olimpiadnykh za-  
dach po matematike. Pod red.F.M.Shustef. Minsk, Gos.  
uchetno-pedagog. izd-vo M-va prosv. BSSR, 1962. 82 p.  
(MIRA 16:7)

(White Russia--Mathematics--Study and teaching)

SHUSTEF, Frida Maksovna; FEL'DMAN, Aleksandr Markovich; GUREVICH,  
Vladimir Yudelovich; STARINSKAYA, Z.V., red.

[Collection of problems for "Mathematical Olympics"]  
Sbornik olimpiadnykh zadach po matematike. Minsk, Na-  
rodnaia asveta, 1965. 82 p. (MIRA 18:12)

FEL'DMAN, A. I. and MURZIN, L. G.

Stakhanovskie metody ekonomii topliva. 3 dopoln. 1 perer. izd. Moskva  
Transzheldorizdat, 1945. 186, (2) p. illus., diagrs.

Stakhanov methods of saving fuel.

MH

DLC: TJ607.M8 1945

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress,  
1953.

Fel'dman, A. S.

USSR/Chemistry - Petroleum

21 May 51

"Catalytic Activity and Selective Effect of Aluminum Silicate Catalysts" A. P. Bal'od,  
I. V. Patsevich, A. S. Fel'dman, A. V. Frost, Moscow State U imeni M. V. Lomonosov.

"Dok Ak Nauk SSSR" Vol LXXVIII, No 3, pp 509-512

Ability of active part of Al silicate, which is acidic, to dissociate under formation of H-ions is essential for catalytic activity and transference of H atoms. In cracking (dealkylation) of cumene and hydrogenation of the formed propene through hydrogen redistribution, no selective effect with ref to any of the stages arises on poisoning of the catalyst with NaOH or Ca(OH)<sub>2</sub>. This shows active centers for cracking and H transference are identical. Sp surface of the catalyst remains unchanged. Consequently, poisoning is due to replacement of H-ions with Na or Ca-ions.

186T14

15.8116

2209

S/190/67003/006/006/019  
27763  
B110/B216

## AUTHORS:

Lyashenko, I. N., Nametkin, N. S., Polak, N. S.,  
Topchiyev, A. V., Fel'dman, A. S., Chernysheva, T. I.

## TITLE:

Catalytic and radiation polymerization and copolymerization  
of allylhydridesilane derivatives

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 6, 1961, 833-840

TEXT: Unsaturated polymers with silicon-carbon links of the type  $\text{RCH}=\text{CHSiR}_2\text{H}$  have lately become of great importance. Using platinized carbon, the authors obtained the polymers:  $-\text{SiCH}_2\text{CH}_2\text{SiCH}_2\text{CH}_2\text{Si}-$  and  $-\text{SiCH}_2\text{CH}_2\text{CH}_2\text{SiCH}_2\text{CH}_2\text{CH}_2\text{Si}-$ . In the present study, diethylallylsilane (I), ethylphenylallylsilane (II), ethyldiallylsilane (III) and triallylsilane (IV) were polymerized at atmospheric pressure catalytically and by the radiation method and copolymerized with acrylonitrile and styrene. Benzoyl peroxide was used as initiator, platinized carbon as catalyst and  $\beta$  and  $\gamma$  rays for irradiation. On heating for 30 min, (IV) polymerized to a white, powdery substance; (III) on heating for 10 hr at 150-200°C with

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B110/B216

Catalytic and radiation polymerization...

the initiator yielded a white, brittle substance; (II) with the initiator yielded a highly viscous liquid and (I) did not polymerize. The polymerizates of (III) and (IV) were insoluble in most organic solvents. The substituents of the alkenylsilane derivatives affect initiated (A) and radiation (B) polymerization in the same way. According to the type of radical linked to the silicon atom, the polymerizantes are oily or solid substances. The tendency to polymerize increases with the number of alkyl groups. The degree of conversion increases with the introduction of phenyl groups. Alkyl substituted monalkylsilanes are difficult to polymerize by (A) or (B). Polymerization probably occurs by cleavage of the double bond, since the infrared spectrum showed the absence of double bonds. A clearly defined second component (Fig. 2a) (III) was found by electron paramagnetic resonance. Introduction of a phenyl group in (II) reduced the amount of this second component (Fig. 2b), and introduction of two phenyl groups in the case of diphenylallylsilane led to the disappearance of this component (Fig. 2c). Fig. 2 shows the epr spectrum of dimethylallylsilane, having no hydrogen at the silicon atom. The presence of free radicals in monomers irradiated at -196°C and the similarity of their infrared spectra with those of initiated monomers indicate radical

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B110/B216

Catalytic and radiation polymerization...

polymerization. Copolymerization of (I), (II), and (III) with acrylonitrile was carried out at various component ratios and  $\gamma$ -doses of  $10\text{-}10^6$  r. The copolymerizes obtained (Table 3) are not fusible below  $300^\circ\text{C}$  and char at  $300^\circ\text{C}$ . The weak or absent double bond band of the acrylonitrile copolymerizes of (III) and (IV), respectively, show that the allyl groups must have reacted in copolymerization to a certain extent in the case of (III) and quantitatively in that of (IV). Doses of  $75\text{-}10^6$  r at a rate of  $0.6\text{-}10^6$  r/hr were applied for radiation copolymerization of diphenylallylsilane, (II), (II) and styrene in varying ratios. Copolymerizate composition does not depend on the initial mixture, the organosilicon component varies between 11 and 17 %. Copolymerizates containing more than 10 % organosilicon components are viscous and elastic, at contents below 10 % they are solid. The copolymerizate of styrene with (IV) in the ratio 1:1 is a hard substance.m.p.  $245^\circ\text{C}$ . To 48 g (2 g-at.) of magnesium in dry ether was added a mixture of 121 g (1 mole) of ethyl bromide and 64.5 g (0.5 mole) of ethyldichlorosilane. Yield: 120 g (85 %) of diethylmethysilane b.p.  $142\text{-}149^\circ\text{C}$  at 756 mm Hg. The other silanes were prepared accordingly. For polymerization, the silane derivatives (1 mole), together with benzoyl peroxide (0.1 mole)

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B110/B216

Catalytic and radiation polymerization...

were heated to boiling for 10 hr at atmospheric pressure. Polymer molecular weights were determined cryoscopically in benzene (Table 2). The silane derivatives were also heated for 10 hr with 15% platinized carbon (1 g per mole silane). After 2 hr, the mixture was heated to 250°C. Triallylsilane was converted to a hard brittle powder within 30 min. Radiation polymerization was carried out in molybdenum glass tubes (10 and 20 ml) using a Co<sup>60</sup> source of capacity 20,000 g-eq. Ra and electron accelerator of 800 kev. The  $\gamma$ -dose rate was  $0.63 \cdot 10^6$  r/hr, irradiations being performed at ~100°C for homopolymerization and 200°C for copolymerization. The monomers and polymers were analyzed in a KKC-14 (IKS-14) spectrometer using NaCl prisms for the 2000-70 cm<sup>-1</sup> range and LiF prisms for the 2000-2300 cm<sup>-1</sup> range. Liquid monomers were examined in the undiluted state at a thickness of 0.014 mm. The epr spectra were taken in molybdenum glass tubes of 4 mm thickness at 196°C and -76°C at a dose rate of  $15 \cdot 10^6$  r/hr. The authors thank M. P. Teterina for carrying out the spectroscopic analysis. There are 3 figures, 4 tables, and 8 references: 4 Soviet-bloc and 4 non-Soviet-bloc. The three references to English-language publications read as follows: Ref. 2: D. G. White, E. G. Rochow, J. Amer. Chem. Soc., 76, 3897, 1954. Ref. 4: Y. M. Curry.

Card 4/M25

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5/190/61/003/006/006/019  
B110/3216

Catalytic and radiation polymerization...

J. Amer. Chem. Soc., 78, 1686, 1956. Ref. 5: Y. M. Curry, J. Amer. Chem. Soc., 80, 1219, 1958.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR (Institute of Petrochemical Synthesis, AS USSR)

SUBMITTED: July 22, 1960

Table 1: Properties of allylsilane derivatives. 1) Monomers; 2) b.p., °C; 3) found; 4) calculated; 5) yield, %.

(1) Monomer	T. B.P., °C (mm)	n <sub>D</sub> <sup>20</sup>	d <sub>4</sub> <sup>20</sup>	M.p. (2) KARLOVSKY MELTING POINT	N.D. (3) MELTING POINT	(5) Yield, %
(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>2</sub> H <sub>5</sub> SiH	126—127	1.4372	0.7538	43.90	43.90	56.4
C <sub>2</sub> H <sub>5</sub> C <sub>2</sub> H <sub>5</sub> C <sub>2</sub> H <sub>5</sub> SiH	76—78(3)	1.5124	0.8635	59.21	59.21	50.3
(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>2</sub> H <sub>5</sub> SiH	132—135(2)	1.5762	0.9934	74.49	75.52	62.0
C <sub>2</sub> H <sub>5</sub> C <sub>2</sub> H <sub>5</sub> C <sub>2</sub> H <sub>5</sub> SiH	112—119	1.4543	0.7781	46.53	46.36	85.0
(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>2</sub> H <sub>5</sub> SiH	42—44(2)	1.4682	0.80142	52.00	53.82	65.0

Card 5/79-5

1. FELDMAN, A. J.
2. USSR (600)
4. Pharmacy
7. On the introduction of some elements of I. P. Pavlov's theory into the work of pharmacies. Apt. de lo no. 2. '52.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

FEL'DMAN, A. S.

4321  
S/844/62/000/000/081/129  
1423/D307

5.3700  
AUTHORS: Topchiyev, A. V., Lyashenko, I. N., Nametkin, N. S., Polak,  
L. S., Teterina, M. P., Fel'dman, A. S. and Chernysheva,  
T. I.

TITLE: Radiation polymerization of allyl silanes

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962,  
477-483

TEXT: A study was made of the radiation polymerization of organo-silicon compounds in order to explain the mechanism of the process. Mono-, di- and triallyl silanes were subjected to  $\gamma$  radiation from  $\text{Co}^{60}$  at an intensity of  $3.4 \times 10^6$  ev/cm<sup>2</sup>.sec at 100°C. A similar series of tests was carried out using benzoyl peroxide as inhibitor. Reactivity of the monomers increased with increasing number of the allyl groups. IR spectra of polydiallylethylenes showed that the Si-H bond was preserved and that polymerization occurred only at the expense of the double bond of the allyl group, in contrast to

Card 1/2

Radiation polymerization of ...

3/844/62/000/000/081/129  
1423/D307

polymerization of diallyl silane in the presence of platinized carbon, where new Si-C bonds were formed. The radical mechanism of the process was confirmed. Solid, insoluble copolymers with acrylonitrile were obtained, which did not melt below 300°C. The molar ratio of the organosilicon component of the copolymer to the acrylonitrile component increased with its increase in the initial mixture, the dependence being stronger at lower dosages. Examination of the ir spectra showed differences in structure between the copolymers of acrylonitrile with diallylethyl silane and ethylphenyl silane. Copolymerization with styrene was studied, finding that the yields of copolymer increased with dosage up to a constant maximum of 50 - 60% for a dose of  $28 - 42 \times 10^{20}$  ev. The dependence of yield, composition and molecular weight on the composition of the initial mixture was also studied. It was concluded that polymerization proceeded by a radical mechanism. There are 8 figures and 1 table.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR (Institute of Petrochemical Synthesis, AS USSR)

Card 2/2

BROVMAN, Ya.S.; KOCHUBIYEVSKIY, F.D.; FEL'DMAN, A.V.

Transistor amplifiers in regulated electric drives.  
Elektrichestvo no.5:32-38 My '62. (MIRA 15:5)

1. Novosibirskiy zavod tyazhelykh stachov i krupnykh  
gidroressorov.

(Electric driving)  
(Transistor amplifiers)

BRESLAV, I.Z.; SLEZINGER, P.I.; FEL'DMAN, A.V.; KRUSHCHEV, A.P.

Converters of phase-type control systems of electric drives.  
Elektrichestvo no.7:48-53 J1 '64. (MIRA 17:11)

1. Novosibirskiy nauchno-issledovatel'skiy elektrotehnicheskiy  
institut.

BRESLAV, I.S. (Novosibirsk); FEL'DMAN, A.V. (Novosibirsk)

Programming of acceleration and deceleration for the program  
control systems of electric drives. Avtom. i telem. 26 no.10:1862-  
1866 0 165. (MIRA 18:10)

FEL'IMAN, A.V., inzh.

Contactless speed control of an electric drive. Elektrotehnika  
36 no.1:54~57 Ja '65. (MIRA 18:3)

L 44001-66 EWT(d)/EWP(1) IJP(c) BB/GG

ACC NR: AP6029947

SOURCE CODE: UR/0413/66/000/015/0112/0112

27

B

INVENTOR: Bay, R. D.; Breslav, I. Z.; Brovman, Ya. S.; Fel'dman, A. V.

ORG: none

TITLE: Linear digital circular and elliptic interpolator. Class 42, No. 184528

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 112

TOPIC TAGS: interpolation, interpolator

ABSTRACT: The linear digital circular and elliptical interpolator whose block diagram is shown in Fig. 1 is described. It consists of a unit for measuring the

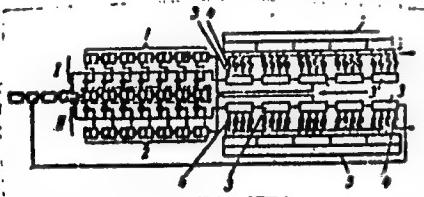


Fig. 1. Linear digital interpolator

I, II - Decimal multipliers; 1, 2 - register-counters; 3 - binary-decimal counter; 4 - voltage pulse gates; 5 - decade register.

frequency from two coordinates by means of two binary multipliers having one common frequency divider and two register-counters. The latter contain negative feedback in the form of an additional counting block. It is applied from the outputs

Cord 1/2

UDC: 62-503.52-529: 681.142

L 44001-66

ACC NR: AP6029947

of each binary multiplier of one coordinate to the counting input of the register-counter from the binary multiplier for the other coordinate. The interpolator also contains one decimal multiplier for each coordinate. These, in turn, are comprised of a decade (binary coded decimal) counter, voltage pulse gates, and a decade register for the entry of initial data corresponding to the radius of curvatures, ellipse minor axes, and linear displacements. The counting input of each decade counter is connected to the output of the binary multiplier of one coordinate. The output of each decade from a pair of decades of the same order belonging to the decade counters from each coordinate, which assure the entry of five pulses into these decades, is connected to the counting input of the register-counter of the other coordinate. This counter arrangement facilitates a more convenient entry of initial data and at the same time simplifies the programming for the interpolation of circular or elliptical arcs whose angles are multiples of  $\pi/2$ . Orig. art. has: 1 figure. [BD]

SUB CODE: 09/ SUBM DATE: 25Jun62/ ATD PRESS: 5070

Card 2/2 b1g

KRUPENINA, M.M., KHLIDMAN, A.I.; ZABELOTSKIY, L.M.; BUBNOV, P.I., red.;  
SINGAL', N.M., red.; DIMITRIYEV, N.I., tekhn. red.

[Yarn beam frame without tensioning tent for ribbon looms] Bes-  
shatrovaya navoinalia rama k lentotkatskomu stanku. Moskva, Gos.  
nauchno-tekhn. izd-vo M-va legkoi promyshl. SSSR, 1956. 34 p.

(MIRA 11:10)

1. Russia (1923- U.S.S.R.) Ministerstvo legkoy promyshlennosti.  
Byuro tekhnicheskoy informatsii.  
(Looms)

ZABLOTSKIY, Lazar' Markovich; KUZ'MIN, Aleksandr Nikolayevich; FEDMAN,  
Aleksandr Yakovlevich; APTEKIN, V.I., retsenzent; PLEMYANNIKOV,  
M.N., red.; GRACHEV, A.M., red.; KOON, V.V., tekhn. red.

[Reference manual for the manufacture of spun and woven goods;  
ribbon and braid weaving] Spravochnik po tekstil'no-galantereinomu  
proizvodstvu; lentochnye i pletenie. Moskva, Gos. nauchno-  
tekhn. izd-vo lit-ry po legkoi promyshl., 1958. 565 p.  
(Textile machinery) (Weaving) (Spinning) (MIRA 11:9)

FELDMAN, A. YE., STROZHKO, I. K., TSIYELENS, E. A., and VALDMAN, A. R. (USSR)

"Biological Role of Vitamin B<sub>12</sub> in Nutrition of Farm Animals and Fowl."

Report presented at the 5th International Biochemistry Congress,  
Moscow, 10-16 Aug 1961

CP FELDMAN, B.A.

13

Research on the use of effect forms of oxidized aluminum.  
B. A. Peklinan. *Polymer* 1948, No. 3, 11-16;

*Chem. Zentr.* 1949, 315.—Oxidized Al forms are recommended in place of Zn forms. Discharging is done in the same manner as with Zn forms. The soln. contains Na-HPO<sub>4</sub>, 12H<sub>2</sub>O, H<sub>3</sub>PO<sub>4</sub>, K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>, HNO<sub>3</sub>, and dextrin. Better results are obtained with white discharge, i.e., with a H<sub>3</sub>PO<sub>4</sub> soln. (14 mg./l.) contg. starch as the colloid. With the Al forms the no. of prints can be increased from 40 to 50 thousand. M. G. Monroe

FEL'DMAN, B. A.

"Technology of the Production of an Illustrated Magazine With High Circulation." Sub 26 Feb 51, Moscow Polygraphic Inst

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

SOV/133-59-6-3/41

AUTHORS: Chentsov, A.V., Fel'dman, B.A. and Shavrin, S.V.

TITLE: On the Problem of Drop in Blast Temperature in the Blow Pipes of Blast Furnaces (K voprosu o poteryakh temperatury dut'ya v soplakh domennykh pechey)

PERIODICAL: Stal', 1959, Nr 6, pp 495-496 (USSR)

ABSTRACT: In view of the lack of agreement in the published literature on the temperature drop of blast in insulated and non-insulated blow pipes, thermal calculations (Fig 1) and experimental determination of the actual temperature drop in non-insulated blow pipes were carried out. It is pointed out that the differences in the temperature drop obtained by various authors may be due to using unscreened thermocouples. As a confirmation of the above supposition, a comparison of temperature drop of blast along the length of a blow pipe measured with unscreened and screened (Fig 2) thermocouples was carried out (Fig 3). It was found that the temperature drop of blast, measured with screened thermocouples, was 11-12°C as against 20-24°C when measured with

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On the Problem of Drop in Blast Temperature in the Blow Pipes of  
Blast Furnaces SOV/133-59-6-3/41

unscreened thermocouples. There are 3 figures and  
7 Soviet references.

ASSOCIATION: Institut metallurgii UFAN i Alapayevskiy  
metallurgicheskiy kombinat (Institute of Metallurgy  
of the UFAN and the Alapayevsk Metallurgical Combine)

Card 2/2

NIKITENKO, M.D., inzh.; FEL'DMAN, B.A., inzh.; LOMAKA, N.F., inzh.;  
BULATOV, B.I., inzh.

Using bauxite-titanium foundry pig iron. Stal' 23 no.6:573-574  
Je '63. (MIRA 16:10)